

WHAT IS CLAIMED IS:

1. A method for mapping a translation type in a No. 7 gateway signaling network, comprising:

defining translation type information of a first signaling network in a translation type mapping table;

5 mapping a translation type contained in a signaling connection control part (SCCP) message of the first signaling network received <sup>from</sup> by <sup>its network</sup> an adjacent signaling network into a translation type of a second network by searching the translation type mapping table; and

mapping a translation type of the second signaling network contained in the SCCP message to be transmitted to the adjacent signaling network into the translation type of the first signaling network by searching the translation type mapping table.

2. The method of claim 1, wherein the translation type mapping table comprises a receiving translation type table configured to resolve the translation type of the second signaling network with at least one of a translation type of an originating signaling network transmitting the SCCP message and the translation type of the first  
5 signaling network contained in the SCCP message.

3. The method of claim 1, wherein the translation type mapping table comprises a transmitting translation type table configured to resolve a translation type of a terminating signaling network with at least one of a translation type of the terminating signaling network to receive the SCCP message and the translation type of the second  
5 signaling network contained in the SCCP message.

4. The method of claim 1, wherein the step of defining translation type information comprises:

receiving translation type mapping information according to a request to define the translation type mapping for the first signaling network;

storing the translation type mapping information in the translation type mapping table; and

transferring the translation type mapping information to a processor to perform the translation type mapping function.

5. The method of claim 4, wherein if the second signaling network is defined as a gateway signaling network, the translation type used by the first signaling network is defined in the SCCP signaling network, and the first signaling network is defined in the signaling network of the gateway

6. The method of claim 4, wherein the translation type mapping information comprises the second signaling network translation type information.

7. The method of claim 4, wherein the translation type mapping information comprises the information related to the first signaling network as a mapping object.

8. The method of claim 4, wherein the translation type mapping information comprises the translation type information on the first signaling network as a mapping object.

9. The method of claim 1, wherein the step of mapping a translation type of a message received from the first network comprises:

searching the originating signaling network transmitting the SCCP message if the SCCP message is received from a signal link interworked with the adjacent signaling network, and searching the translation type contained in the SCCP message of the first signaling network if the originating signaling network is the first signaling network;

determining whether the translation type of the second signaling network corresponding to the translation type of the first signaling network exists by searching

10 the receiving translation type mapping table with the resolved translation type of the  
first signaling network; and

mapping the translation type of the first signaling network contained in the  
SCCP message into the translation type of the second signaling network, if the  
translation type of the second signaling network corresponding to the translation type  
15 of the first signaling network exists.

10. The method of claim 1, wherein the step of mapping a translation type of  
messages to be transmitted comprises:

searching the translation type of the second signaling network contained in the  
SCCP message to be transmitted if the terminating signaling network is the first  
5 signaling network;

determining whether the translation type of the first signaling network  
corresponding to the translation type of the second signaling network exists by  
searching the transmitting translation type mapping table with the resolved translation  
type of the second signaling network; and

10 mapping the translation type of the second signaling network contained in the  
SCCP message to be transmitted into the translation type used by the terminating  
network, if the translation type of the first signaling network corresponding to the  
translation type of the second signaling network exists.

11. A method of transmitting a signaling connection control part (SCCP) message from a first network to a second network, comprising:

generating a first SCCP signal having a first translation type;

transmitting the first SCCP signal from a first network;

5 searching a translation type mapping table for a definition corresponding to the first translation type;

receiving the first SCCP signal by a second network having a second translation type;

mapping the first translation type to the second translation type according to the definition from the translation type mapping table.

12. A method of mapping a translation type in a common channel signaling network, comprising:

identifying a first translation type of a first network based on a signaling connection control part (SCCP) message;

5 searching a look-up table for a second translation type of a second network corresponding to the first translation type;

mapping the first translation type to the second translation type in accordance with a definition of the look-up table.

13. The method of claim 12, wherein the look-up table comprises one of a  
10 receiving translation type mapping table and a transmitting translation type mapping  
table.

14. The method of claim 13, wherein the transmitting translation type  
mapping table is configured to resolve a translation type of a terminating signaling  
network with at least one of a translation type of the terminating signaling network to  
15 receive the SCCP message and the translation type of the second network contained in  
the SCCP message.

15. The method of claim 13, wherein the receiving translation type mapping  
table is configured to resolve the translation type of the second network with at least  
one of a translation type of an originating signaling network transmitting the SCCP  
message and the translation type of the first signaling network contained in the SCCP  
20 message.